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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,715	12/02/2004	Joe Howard	P15322-US1 9914	
27045	7590 11/14/2006		EXAMINER	
ERICSSON INC.			LY, NGHI H	
6300 LEGA M/S EVR C	CY DRIVE		ART UNIT	PAPER NUMBER
PLANO, TX 75024			2617	
	•		DATE MAILED: 11/14/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s) '					
0.55	10/516,715	HOWARD, JOE					
Office Action Summary	Examiner	Art Unit	_				
	Nghi H. Ly	2617					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 10/27	7/06						
	action is non-final.						
3) Since this application is in condition for allowar		secution as to the merits is					
closed in accordance with the practice under E	•						
Disposition of Claims							
4)⊠ Claim(s) <u>11,13 and 15-17</u> is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>11,13 and 15-17</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r						
10) The drawing(s) filed on is/are: a) acce		- xaminer					
Applicant may not request that any objection to the	•						
Replacement drawing sheet(s) including the correct	- · · ·	·					
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	• •					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents	s have been received						
2. Certified copies of the priority documents		on No					
3. Copies of the certified copies of the prior	• •						
application from the International Bureau	· ·	a mana mananan anaga					
* See the attached detailed Office action for a list		d.					
	·						
Attachment(s)	_						
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:	, ,					

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The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 11, 13 and 15-17 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 11, 13, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reich et al (US 2002/0184256 A1) in view of Matsumoto et al (US 6,711,264) and further in view of Pang et al (US 6,931,543) and Salmimaa et al (US 2003/0142125A1).

Regarding claim 11, Reich teaches a method of controlling a network entity of a mobile communication network and a mobile station (see Abstract and see fig.1, wireless connection between mobile station 12 and network), wherein the network entity and the mobile station are adapted to conduct a plurality of predetermined message exchange procedures in the course of which predetermined messages are exchanged between the network entity and the mobile station depending on the given procedure

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(see Abstract, [006], and [0065], see "message"), where the predetermined messages may be encrypted (see [003], see "encryption"), an encrypted message being any message of which at least a part is encrypted (see [0064], see "encrypt"), and where the network entity and the mobile station are adapted to conduct one or more encryption key generation procedures during which the network entity and the mobile station generate and store respective corresponding encryption keys in order to be able to encrypt and decrypt exchanged messages (see [0064], see "encrypt" and see Abstract, [006], and [0065], see "message"), the method comprises the steps of:

if the network entity receives a message from the mobile station, determining whether the received message is encrypted (see [0064], see "encrypt" and see Abstract, [006], and [0065], see "message").

Reich does not specifically disclose if the received message is encrypted, determining whether a correct encryption key for decrypting the message is available to the network entity and, if no correct key is available, sending a predetermined triggering message to the mobile station, and

upon receiving the predetermined triggering message, the mobile station interrupting the procedure in the course of which it sent the encrypted message for which the network entity did not have a correct key, and initiating an encryption key generation procedure.

Matsumoto teaches if the received message is encrypted (see column 2, lines 11-13, see "generating an encryption key", in order to generate an encryption key to decrypt the message, the teaching of Matsumoto inherently teaches "message is

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encrypted". In addition, column 2, lines 11-15, see "adapt to encrypt and decrypt communication contents"), determining whether a correct encryption key for decrypting the message is available to the network entity and, if no correct key is available (see column 2, lines 11-13, see "generating an encryption key at at least one of the communication devices", in order to generate an encryption key at at least one of the communication devices, the teaching of Matsumoto inherently teaches "if no correct key is available", "to the network"), sending a predetermined triggering message to the mobile station (see column 2, lines 15-22, see "requesting the encryption key" or "upon receiving the request". The "request" or "requesting" reads on Applicant's "triggering message"), and

upon receiving the predetermined triggering message (column 2, lines 15-22, see "upon receiving the request". The "request" or "requesting" reads on Applicant's "triggering message"), the mobile station interrupting the procedure in the course of which it sent the encrypted message for which the network entity did not have a correct key (see column 2, lines 11-13, see "generating an encryption key at at least one of the communication devices", in order to generate an encryption key at the communication devices, the teaching of Matsumoto inherently teaches "the network entity did not have a correct key", or if the network already had the key, the communication devices of Matsumoto does not need to generate a key), and initiating an encryption key generation procedure (column 2, lines 19-22, see "generated encryption key". In addition, see Matsumoto, column 4, line 59 to column 5, line 10, see "For instance, the user chooses whether a conversation message should be encrypted or not by pressing

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an on/off command button shown by the GUI (Graphic User Interface). When the encryption mode is on, the encrypting means attaches an encryption flag at the beginning of the encrypted conversation message. The communication device adds a send command to the conversation message, and sends them to the network. When the receiving user terminal does not have an encryption key to decrypt the encrypted conversation message, or when the encryption key that the receiving user terminal has cannot decrypted the received encrypted conversation message"....That is, the message has already been sent/received before the receiving device does not have the necessary key to decrypt the message or after the message has already been sent/received, the receiving device is determined if it has the necessary key to decrypt the message).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Matsumoto into the system of Reich in order to improve security of communications (see Matsumoto, column 1, lines 7-9).

The combination of Reich and Matsumoto does not specifically disclose the messages are arranged such that they have a first part and a second part, the first part being an unencrypted part that is not allowed to be encrypted, and the second part being encryptable and messages are arranged such that said first part contains a message type identifier identifying the type of the message, and after having received a message from said mobile station, said network entity identifies the message type of

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said received message from the message type identifier and determines whether said identified message type belongs to a predetermined category.

Pang teaches the messages are arranged such that they have a first part and a second part, the first part being an unencrypted part that is not allowed to be encrypted, and the second part being encryptable (see column 4, lines 10-19) and messages are arranged such that said first part contains a message type identifier identifying the type of the message, and after having received a message from said mobile station (see column 7, line 14-19), said network entity identifies the message type of said received message from the message type identifier and determines whether said identified message type belongs to a predetermined category (see column 7, line 14-19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Pang into the system of Reich and Matsumoto in order to prevent data from being loss (see Pang, column 2, lines 33-34).

The combination of Reich, Matsumoto and Pang sending said predetermined triggering message to said mobile station only if the message type of said received message falls into said predetermined category.

Salmimaa teaches sending said predetermined triggering message to said mobile station only if the message type of said received message falls into said predetermined category (see [0033]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Salmimaa into the system of

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Reich, Matsumoto and Pang in order to provide a method for displaying of icons on the display of a mobile terminal (see Salmimaa, Abstract).

Regarding claim 13, the combination of Reich and Matsumoto, Pang and Salmimaa further teaches the messages are arranged such that the first part contains an encryption indication of whether the second part is encrypted or not, and the determining of whether the second part of the received message is encrypted or not is achieved by analysing the encryption indication (see Pang, column 4, lines 10-19).

Regarding claim 15, Reich further teaches the one or more encryption key generation procedures comprise obtaining an encryption base value commonly available to the network entity and the mobile station at the time of conducting the encryption key generation procedure, and generating corresponding encryption keys in the network entity and the mobile station on the basis of the encryption base value (see [0064] and [0066]) or (see Matsumoto, column 2, lines 11-25, see "generated encryption key").

Regarding claim 16, Reich further teaches the encryption base value is a regularly changed value that is broadcast by the network to listening mobile stations (see [0064] and [0066]).

4. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Reich et al (US 2002/0184256 A1) in view of Matsumoto et al (US 6,711,264) and further in view of Pang et al (US 6,931,543) and Salmimaa et al (US 2003/0142125A1) and further in view of D'Amico et al (US 5,077,790).

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Regarding claim 17, the combination of Reich, Matsumoto, Pang and Salmimaa teaches claim 11. The combination of Reich, Matsumoto, Pang and Salmimaa does not specifically disclose the encryption conducted as a part of a registration procedure of the key generation procedure is mobile station with the network entity.

D'Amico teaches the encryption conducted as a part of a registration procedure of the key generation procedure is mobile station with the network entity (see column 1, lines 65 to column 2, line 6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of D'Amico into the system of Reich, Matsumoto, Pang and Salmimaa in order to a method for registration of a portable unit maybe utilized in a communication system the comprises a network controller (see D'Amico, column 1, lines 41-43).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (571) 272-7911. The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nghi H. Ly